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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/712,986	11/12/2003	Bruce W. Cobb	1934-10-3	7332

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EXAMINER

AVILA, STEPHEN P

ART UNIT	PAPER NUMBER
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3617

DATE MAILED: 01/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/712,986

Applicant(s)

COBB ET AL.

Examiner

Stephen Avila

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 December 2004.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 9-16 is/are allowed.
- 6) ☒ Claim(s) 1-7, 17, 19-23, 25 and 26 is/are rejected.
- 7) ☒ Claim(s) 8, 18, 24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-7, 17, 21-23, and 26 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Schmidt. Schmidt discloses a ship with a hull structure with various hull portions arrangements (such as 34, 38 or 28, 29, note Figures 11-16, for example), the hulls having a Froude number of greater than approximately 0.8 (note column 2, line 49, for example). Note that the hull portions of Schmidt are arranged in a quadrilateral pattern. It would have been an obvious choice of engineering design to a person of ordinary skill in the art at the time the invention was made would have been to form the hull portions with an octangular pattern for improved buoyancy. With respect to the intended use on a large waterplane ship, the intended use has been given limited weight, and it is noted that the hull portions of Schmidt are capable of being used with on a large waterplane ship. Furthermore, considering the struts part of the hull portions, the hull portions would at least partially be above the waterline of the vessel.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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4. Claims 2 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schmidt in view of Loui. Schmidt does not disclose a triangular pattern. Loui teaches a triangular pattern. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to form the pattern of Schmidt to be triangular for improved speed.

5. Claims 19 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schmidt in view of Barbier et al. Schmidt does not disclose ballasting. Barbier et al teach ballasting hull portions (note ballast tanks 34). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to form the hull portions of Schmidt with ballast tanks as taught by Barbier et al to adjust the waterplane.

6. Claims 8, 18 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

7. Claims 9-16 are allowed.

8. Applicant's arguments filed December 6, 2004 have been fully considered but they are not persuasive. Applicant alleges that Schmidt does not disclose hull portions that are partially submerged and directly coupled to the main hull. However, hull portions, such as 34, 38 are partially submerged and directly coupled to the main hull 22. Note that the claims do not claim that a pontoon is directly coupled to a main hull. The strut and pontoon of Schmidt can clearly be defined as a hull portion.

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9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Takahashi et al show hull portions. Marinzoli shows hull portions 60.
10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Avila whose telephone number is 703-308-2578. The examiner can normally be reached on Monday to Thursday from 7 AM to 3 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Samuel J. Morano can be reached on 703-308-0230. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stephen Avila
Primary Examiner
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